



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Wenling Wang, et al.

U.S. Serial No.: 09/963,381

Group Art Unit: 2812

Filed: : September 27, 2001

Examiner: To Be Assigned

For : HEAT TREATMENT APPARATUS AND CONTROLLER FOR HEAT
TREATMENT APPARATUS AND CONTROL METHOD FOR HEAT
TREATMENT APPARATUS

CONSENT OF ASSIGNEE TO ADD INVENTORS

Commissioner for Patents
Washington, DC 20231

Sir :

Tokyo Electron Limited, assignee of the right, title and interest in and to
U.S. Patent Application No. 09/963,381, hereby consents to the addition of Sunil Shah and
Pradeep Pandey as named co-inventors in said patent application.

Also being filed concurrently herewith is a Statement under 37 CFR §3.73(b).

February 20, 2003

Date

Signature

Toshihiko SUGA

Printed Name of Signator

Vice President,
Legal & Intellectual Property
Department

Title of Signator

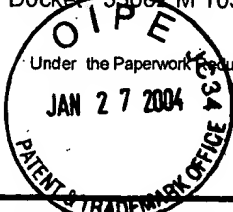
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TECHNOLOGY CENTER R3700

of Tokyo Electron Limited

COPY

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Tokyo Electron LimitedApplication No./Patent No.: 09/963,381Filed/Issue Date: September 27, 2001Entitled: HEAT TREATMENT APPARATUS AND CONTROLLER FOR HEAT TREATMENT APPARATUS AND CONTROL METHOD FOR HEAT TREATMENT APPARATUSTOKYO ELECTRON LIMITEDa corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 012207, Frame 0778, or for which a copy thereof is attached.

OR. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

February 20, 2003

Date

Toshihiko Suga

Signature

Toshihiko SUGA

Typed or printed name

Vice President, Legal & Intellectual Property Department

Title

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ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

**HEAT TREATMENT APPARATUS AND CONTROLLER
FOR HEAT TREATMENT APPARATUS AND CONTROL
METHOD FOR HEAT TREATMENT APPARATUS**

The PATENT RIGHTS referred to in this agreement are:

- (check one) ☐ a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- ☒ U.S. patent application Serial No. 09/963,381 filed September 27, 2001.
- ☐ a U.S. patent application based on PCT International Application No. _____ filed on _____, U.S. patent application Serial No. _____, if known).
- ☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one) ☒ U.S. patent rights only.
- ☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) **Tokyo Electron Limited**
(Address) **3-6, Akasaka 5-Chome**
Minato-Ku, Tokyo-To
JAPAN

The ASSIGNEEs are:

- (check one) ☐ An Individual.
- ☐ A Partnership.
- ☒ A Corporation of JAPAN (specify state or country)
- ☐ (other)

The ASSIGNOR(S), receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:
the full and exclusive right to the invention;

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the entire right, title and interest in and to the PATENT RIGHTS;
the right to sue and recover for any past infringement; and,
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions,
based on any earlier patent applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

<u>Wenling WANG</u>	<u>Wenling Wang</u>	
Name of sole or first inventor	Signature	Date Feb 18, 2003
<u>Koichi SAKAMOTO</u>	<u>Koichi Sakamoto</u>	<u>Feb 20, 2003</u>
Name of second inventor	Signature	Date
<u>Youngchul PARK</u>	<u>Youngchul Park</u>	<u>Feb 20, '03</u>
Name of third inventor	Signature	Date
<u>Fujio SUZUKI</u>	<u>Fujio Suzuki</u>	<u>February 20, 2003</u>
Name of fourth inventor	Signature	Date
<u>Sunil SHAH</u>	<u>Sunil L. Shah</u>	<u>3/24/2003</u>
Name of fifth inventor	Signature	Date
<u>Pradeep PANDEY</u>	<u>P. Pandey</u>	<u>3/25/03</u>
Name of sixth inventor	Signature	Date

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PATENT

Attorney Docket No.: 033082 MN 103

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Wenling Wang, et al.

U.S. Serial No.: 09/963,381

Group Art Unit: 2812

Filed: : September 27, 2001

Examiner: To Be Assigned

For : HEAT TREATMENT APPARATUS AND CONTROLLER FOR HEAT
TREATMENT APPARATUS AND CONTROL METHOD FOR HEAT
TREATMENT APPARATUS

STATEMENT UNDER 37 CFR § 1.48(a)

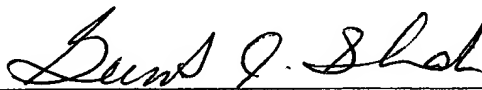
**Commissioner for Patents
Washington, D.C. 20231**

Attention: Supervisory Patent Examiner, Unit 2812

Sir:

I, Sunil Shah, hereby state that the error in failing to identify me as one of the inventorship entity arose without any deceptive intent on my part. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: _____



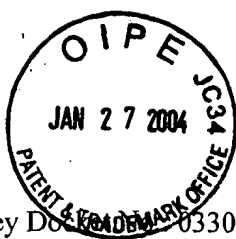
Name: Sunil Shah

Residence: 637 Linden Avenue
Los Altos, CA 94022
Citizenship: U.S.

3/24/2003

Date

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Attorney Docket No. 033082 MN 103

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Wenling Wang, et al.

U.S. Serial No.: 09/963,381

Group Art Unit: 2812

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For : HEAT TREATMENT APPARATUS AND CONTROLLER FOR HEAT
TREATMENT APPARATUS AND CONTROL METHOD FOR HEAT
TREATMENT APPARATUS

STATEMENT UNDER 37 CFR § 1.48(a)

**Commissioner for Patents
Washington, D.C. 20231**

Attention: Supervisory Patent Examiner, Unit 2812

Sir:

I, Pradeep Pandey, hereby state that the error in failing to identify me as one of the inventorship entity arose without any deceptive intent on my part. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: _____

Name: Pradeep Pandey

Residence: 7169 Brooktree Court
San Jose, CA 95120
Citizenship: U.S.

Date

3/25/03

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Declaration and Power of Attorney United States Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter which is claimed and for which a patent is sought on the invention entitled

HEAT TREATMENT APPARATUS AND CONTROLLER FOR HEAT TREATMENT APPARATUS AND CONTROL METHOD FOR HEAT TREATMENT APPARATUS

(check one)

☐ is attached hereto.

☒ was filed as U.S. Application No. 09/963,381 on September 27, 2001 and (*if applicable*) was amended on _____.

☐ was filed as PCT International Application No. _____ on _____ and (*if applicable*) was amended under PCT Article 36 on _____.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign and PCT application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America listed in this Declaration. I have also identified below any foreign application for patent or inventor's certificate or PCT international application having a filing date before that of the application(s) on which priority is claimed:

Foreign/PCT Application No.	Country	Filing Date	Priority Claimed? (yes/no)
2000-295262	Japan	27 September 2000	Yes

I hereby claim the benefit under Title 35, United States Code, §120 or §365(c) of any United States application and PCT international application designating the United States of America listed in this Declaration and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Application No.	Filing Date	Status (patented/pending/abandoned?)

I hereby claim priority benefits under Title 35 United States Code §119(e) of any U.S. provisional application(s) listed below:

U.S. Provisional Application No.	Filing Date

I hereby appoint the following attorneys/agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Robert G. Weilacher (20,531), Herbert M. Hanegan (25,682), Dale Lischer (28,438), Frederick F. Calvetti (28,557), J. Rodgers Lunsford, III (29,405), Michael A. Makuch (32,263), Dennis C. Rodgers (32,936), Mary A. Montebello (33,021), Eric J. Hanson (44,738), Brandon S. Boss (46,567), Robert J. Veal (30,895), Christopher A. Holland (46,316), Brendan E. Squire (48,749) and Brett L. Nelson (48,119).

Send all correspondence to: SMITH, GAMBRELL & RUSSELL, LLP, 1850 M Street, N.W. (Suite 800), Washington, D.C. 20036. All facsimiles may be sent to (202) 263-4329. Direct all phone calls to (202) 263-4300.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first or sole inventor: Wenling WANG
Residence (city, state, country): Tokyo-To, Japan
Post office address: c/o TOKYO ELECTRON LIMITED
3-6, Akasaka 5-Chome
Minato-Ku, Tokyo-To, Japan

Citizenship: China

Signature: Wenling Wang

Date: Feb 18, 2003

Full name of second inventor: Koichi SAKAMOTO
Residence (city, state, country): Tokyo-To, Japan
Post office address: c/o TOKYO ELECTRON LIMITED
3-6, Akasaka 5-Chome
Minato-Ku, Tokyo-To, Japan

Citizenship: Japan

Signature: Koichi Sakamoto

Date: Feb 20, 2003

Full name of third inventor: Youngchul PARK
Residence (city, state, country): Tokyo-To, Japan
Post office address: c/o TOKYO ELECTRON LIMITED
3-6, Akasaka 5-Chome
Minato-Ku, Tokyo-To, Japan

Citizenship: Korea

Signature: Youngchul Park

Date: Feb 20, 2003

Full name of fourth inventor: Fujio SUZUKI
Residence (city, state, country): Tokyo-To, Japan
Post office address: c/o TOKYO ELECTRON LIMITED
3-6, Akasaka 5-Chome
Minato-Ku, Tokyo-To, Japan

Citizenship: Japan

Signature: Fujio Suzuki

Date: February 20, 2003

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Full name of fifth inventor: Sunil SHAH
Residence (city, state, country): Los Altos, California, U.S.
Post office address: 637 Linen Avenue
Los Altos, California, U.S.

Citizenship: U.S.

Signature: Sunil S. Shah

Date: 3/24/2003

Full name of sixth inventor: Pradeep PANDEY
Residence (city, state, country): San Jose, California, U.S.
Post office address: 7169 Brooktree Court
San Jose, California, U.S.

Citizenship: U.S.

Signature: P. Pandey

Date: 3/25/03

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PATENTS ONLY

Tab settings ⇨ ⇨ ⇨

To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Wenling WANG
Koichi SAKAMOTO
Youngchul PARK
Fujio SUZUKI

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 2/18/03; 2/20/03; 2/20/03; and 2/20/03,
respectively

2. Name and address of receiving party(ies)

Name: Tokyo Electron Limited

Internal Address: _____

Street Address: 3-6, Akasaka 5-Chome

Minato-Ku, Tokyo-To, JAPAN

City: _____ State: _____ Zip: _____

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/963,381

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Smith, Gambrell & Russell

Internal Address: _____

Street Address: 1850 M Street, N.W.

Suite 800

City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

02-4300

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael A. Makuch

Name of Person Signing

Signature

May 15, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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CONTINUATION OF BOX 1

Name of conveying party(ies):

Execution Date:

Sunil SHAH

3/24/03

Pradeep PANDEY

3/25/03

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ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

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FOR HEAT TREATMENT APPARATUS AND CONTROL
METHOD FOR HEAT TREATMENT APPARATUS**

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- ☒ U.S. patent application Serial No. 09/963,381 filed September 27, 2001.
- ☐ a U.S. patent application based on PCT International Application No. _____ filed on _____, U.S. patent application Serial No. _____, if known).
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- ☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee)	Tokyo Electron Limited
(Address)	3-6, Akasaka 5-Chome
	Minato-Ku, Tokyo-To
	JAPAN

The ASSIGNEEs are:

- (check one) ☐ An Individual.
- ☐ A Partnership.
- ☒ A Corporation of JAPAN (specify state or country)
- ☐ (other)

The ASSIGNOR(S), receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:
the full and exclusive right to the invention;

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the entire right, title and interest in and to the PATENT RIGHTS;
the right to sue and recover for any past infringement; and,
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based on any earlier patent applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby
authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the
ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said
ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives,
any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings,
sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and
reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be
issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to
aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said
invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this
application to check any appropriate boxes and to insert the Serial Number and filing date in this
document after it has been executed.

<u>Wenling WANG</u>	<u>Wenling Wang</u>	
Name of sole or first inventor	Signature	Date Feb 18, 2003
<u>Koichi SAKAMOTO</u>	<u>Koichi Sakamoto</u>	<u>Feb 20, 2003</u>
Name of second inventor	Signature	Date
<u>Youngchul PARK</u>	<u>Youngchul Park</u>	<u>Feb 20, '03</u>
Name of third inventor	Signature	Date
<u>Fujio SUZUKI</u>	<u>Fujio Suzuki</u>	<u>February 20, 2003</u>
Name of fourth inventor	Signature	Date
<u>Sunil SHAH</u>	<u>Sunil R. Shah</u>	<u>3/24/2003</u>
Name of fifth inventor	Signature	Date
<u>Pradeep PANDEY</u>	<u>P. Pandey</u>	<u>3/25/03</u>
Name of sixth inventor	Signature	Date

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